## IN THE CLAIMS

Please amend the claims as follows

1 (Original) An apparatus for a wireless communication system supporting packet data transmissions, comprising:

means for receiving a rate request indicator DRR for a mobile station:

means for determining a fairness parameter  $\alpha$  for the mobile station;

means for calculating a projected throughput value T' for the mobile station as a function of the rate request indicator;

means for calculating a priority function for the mobile station as  $DRR/(T')^{\alpha}$ ; and means for scheduling transmissions to the mobile stations according to the priority functions.

- (Original) The apparatus as in claim 1, wherein the means for calculating the priority function further comprises means for calculating the priority function using a monotonic function of (T')<sup>a</sup>.
- (Original) The apparatus of claim 1, wherein each of the rate request indicators is a data rate request received from one of the plurality of mobile stations.
- (Original) The apparatus of claim 1, wherein each of the rate request indicators is a carrier-to-interference ratio received from one of the plurality of mobile stations.
- 5. (Original) The apparatus of claim 1, further comprising:
  - means for transmitting data to the plurality of mobile stations in response to scheduling transmissions.
- (Original) The apparatus of claim 1, further comprising:

means for updating the priority functions of scheduled mobile stations as a function of the rate request indicator.

- 7. (Original) The apparatus of claim 6, further comprising:
  - means for updating the priority functions of non-scheduled mobile stations assuming the rate request indicator is equal to zero.
- (Original) An apparatus for scheduling packet data transactions in a wireless communication system, comprising:
  - means for determining a pool of users;
  - means for calculating a priority function of at least a portion of the pool of users; means for scheduling a first set of users having pending data transactions from the portion of the pool of users;
  - means for receiving rate request indicators from the portion of the pool of users; and means for updating priority functions of the first set of users as the rate request indicators divided by a function of projected throughput and a fairness parameter.
- 9. (Original) The apparatus of claim 8, further comprising:
  - means for updating a second set of users within the portion of the pool of users different from the first set of users using a rate request of zero.
- (Original) The apparatus as in claim 8, wherein the portion of the pool of users are users having pending data.
- 11. (Original) The apparatus as in claim 10, wherein the first set of users comprises one user.
- 12. (Cancelled)
- (Cancelled)